

# RTP 103CC HI UV

Polypropylene Copolymer

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.  
-Preliminary Product Data per RTP Co.-

| General Information                |                                                       |                   |             |
|------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Additive                           | Impact modifier                                       |                   |             |
|                                    | UV stabilizer                                         |                   |             |
| Features                           | Impact modification                                   |                   |             |
|                                    | Chemical coupling                                     |                   |             |
|                                    | Impact resistance, good                               |                   |             |
|                                    | Good UV resistance                                    |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black                                                 |                   |             |
|                                    | Natural color                                         |                   |             |
| Forms                              | Particle                                              |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                   | 1.05                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.30                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.010                                                 | %                 | ASTM D570   |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                    | 4140                                                  | MPa               | ASTM D638   |
| Tensile Strength                   | 48.3                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 6.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                   | 3100                                                  | MPa               | ASTM D790   |
| Flexural Strength                  | 68.9                                                  | MPa               | ASTM D790   |
| Impact                             | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 210                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 640                                                   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load  |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 138                                                   | °C                | ASTM D648   |

|                                                         |               |         |             |
|---------------------------------------------------------|---------------|---------|-------------|
| 1.8 MPa, not annealed                                   | 116           | °C      | ASTM D648   |
| Electrical                                              | Nominal Value | Unit    | Test Method |
| Volume Resistivity                                      | 1.0E+16       | ohms·cm | ASTM D257   |
| Flammability                                            | Nominal Value | Unit    | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.) | HB            |         | UL 94       |
| Additional Information                                  |               |         |             |
| Mold Shrinkage, ASTM D-955, 0.25in: 5mil/in.            |               |         |             |
| Injection                                               | Nominal Value | Unit    |             |
| Drying Temperature                                      | 82.2          | °C      |             |
| Drying Time                                             | 2.0           | hr      |             |
| Suggested Max Regrind                                   | 20            | %       |             |
| Rear Temperature                                        | 218 - 274     | °C      |             |
| Middle Temperature                                      | 218 - 274     | °C      |             |
| Front Temperature                                       | 218 - 274     | °C      |             |
| Mold Temperature                                        | 32.2 - 65.6   | °C      |             |
| Injection Pressure                                      | 68.9 - 103    | MPa     |             |

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#### Recommended distributors for this material

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